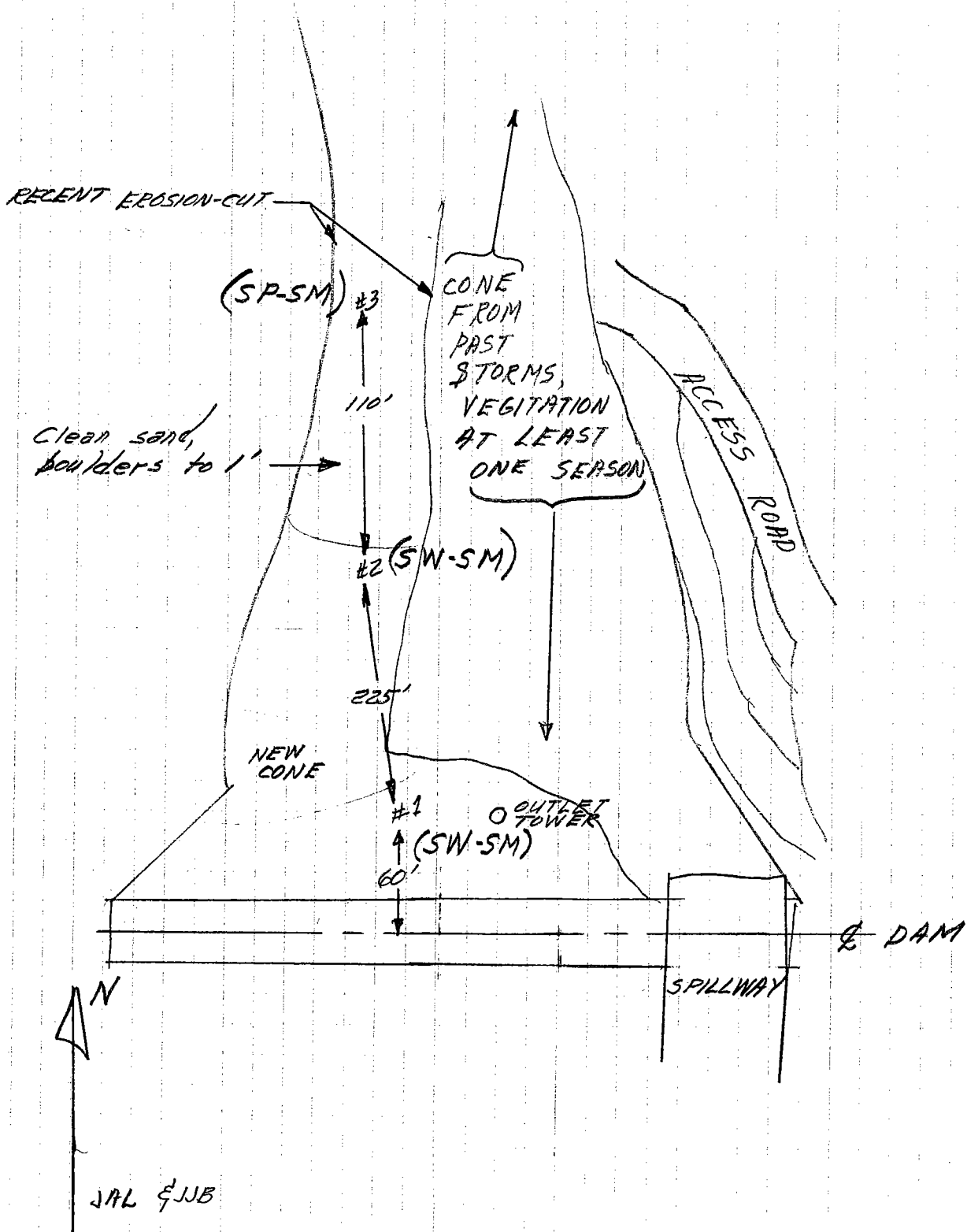


Laman Debris Basin

2/24/69
from 2/20/69



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

30
SM-SW ✓

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22905 Total Weight of Sample 1.11 lbs.
 Project LANWAN DB _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 2/20 Plotted By _____
 Boring No. _____ Sample No. _____ Remarks MP
 Sampled By _____ Lab Tested By NR Intended Use _____

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
¾"	19.1	0.03		2.9	2.9		
⅜"	9.52	0.11		10.5	13.4		
No. 4	4.76	0.23	.37	21.9	35.3	64.8	
Pan	0	0.74		xxxxx			
Total Fractions		1.11		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		0.68		64.8			
Total Oven-Dry		1.05		100.00			

Moisture Determination of Fines:
Cup No. 62
Dry Weight 165.5 grams
Moisture 9.3 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 91.5 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 141.2 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	29.8	21.1	56.4		
16	1.19	25.3	17.9	74.3		
30	0.59	10.6	7.5	81.8		
50	.297	5.8	4.1	85.9		
100	.149	7.0	5.0	90.9		
200	.074	5.1	3.6	94.2	5.8	
Pan	0	0.1				
Total Fractions		83.7				
Total Dry Weight After Wet Sieving		203.4	83.2	58.9		
Sieve Loss-Gain		120.2	+0.5			

Calculated by NR Date 2/24/69
 Checked by SHE Date 2/27/69

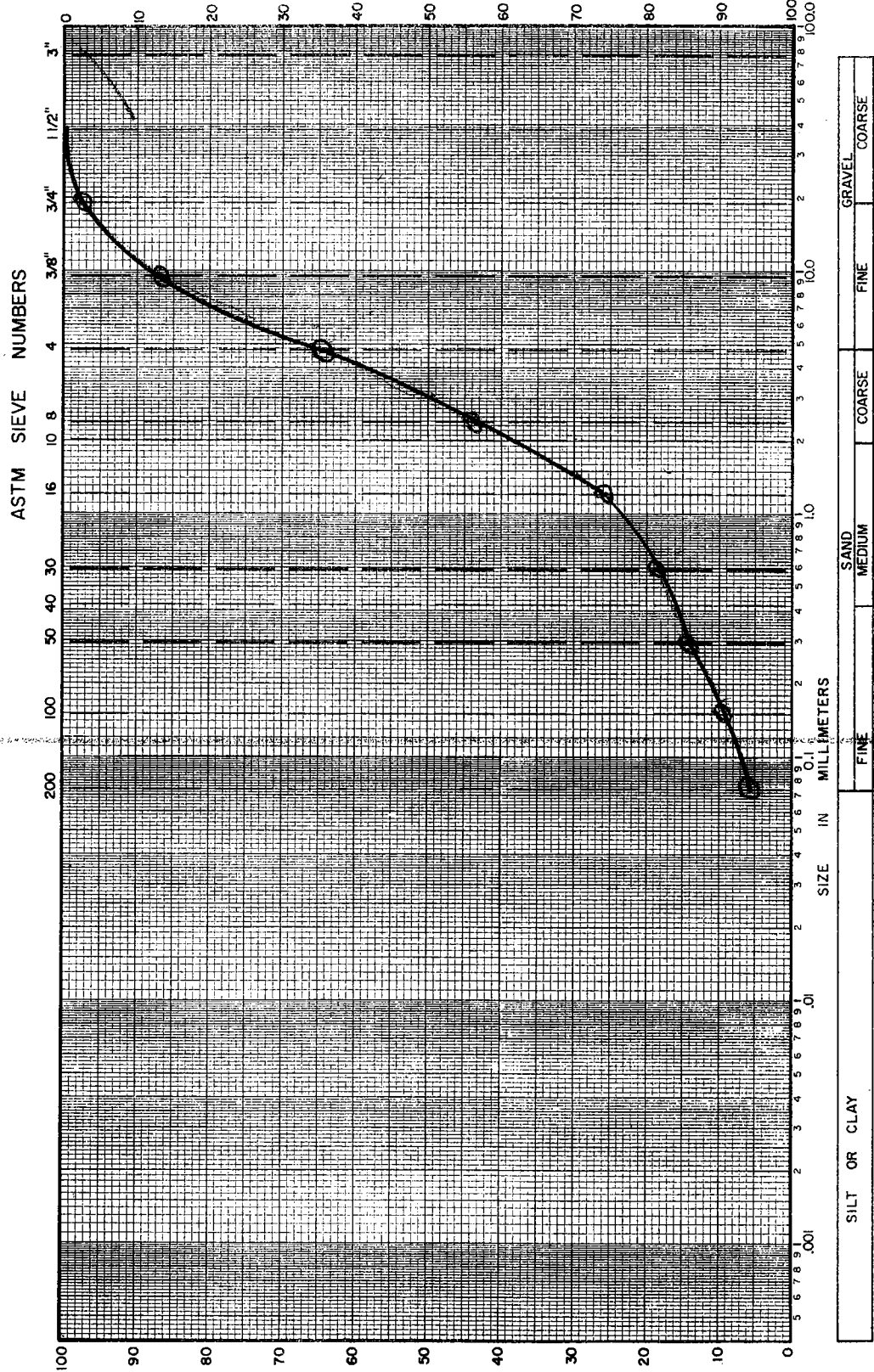
Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division
MECHANICAL ANALYSIS

LAB. SERIAL NO. 22905
 JOB ANNAN D.B.
 BORING NO. _____ SAMPLE NO. _____
 STATION _____ DEPTH _____ FT.
 LOCATION _____
 SAMPLED BY _____ DATE _____
 FIELD CLASSIFICATION _____ BY _____
 PLAS. IND. _____ LIQ. LIM. _____
 REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____
 %(+)NO. 4/+(+)NO. 200 _____ D₁₀ 0.17 mm
 D₃₀ 1.4 mm D₆₀ 4.2 mm
 C_u = D₆₀/D₁₀ 24.7 PLOTTED BY R
 C_c = (D₃₀)² / (D₁₀ x D₆₀) 2.75
1.96 CHECKED BY RTI
1.714 GROUP SYMBOL _____ DATE 2/27/69
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

30
SM-SW

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22906
Project LANNAN DB
Station _____
Location _____
Boring No. 2 Sample No. _____
Sampled By _____ Lab Tested By R

Total Weight of Sample 1.12 lbs.
_____ grams.
Moisture Content of Fines _____ %.
Date Tested 2/26 Plotted By _____
Remarks NP
Intended Use _____

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52						
No. 4	4.76	0.01		1.0	1.0	99.0	
Pan	0	1.11		xxxxx			
Total Fractions		1.12		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		.99		99.0			
Total Oven-Dry		1.00		100.00			

Moisture Determination of Fines:

Cup No. 1
Dry Weight 163.3 grams
Moisture 12.0 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 89.3 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 90.2 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	3.5	3.9	4.9		
16	1.19	24.6	27.3	32.2		
30	0.59	26.4	29.3	61.5		
50	.297	15.2	16.9	78.4		
100	.149	9.5	10.5	88.9		
200	.074	4.5	5.0	93.6	6.4	
Pan	0	0.1				
Total Fractions		83.8				
Total Dry Weight After Wet Sieving <u>203.7</u>		83.5	92.6			
Sieve Loss-Gain <u>120.2</u>		20.3				

Calculated by R Date 2/27/69
Checked by SHP Date 2/28/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. _____

JOB _____

BORING NO. _____ SAMPLE NO. _____

STATION _____ DEPTH _____ FT.

LOCATION _____

SAMPLED BY _____ DATE _____

FIELD CLASSIFICATION _____ BY _____

PLAS. IND. _____ LIQ. LIM. _____

REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____

% (+) NO. 4 / % (+) NO. 200 _____ D₁₀ _____ mm

D₃₀ _____ mm D₆₀ _____ mm

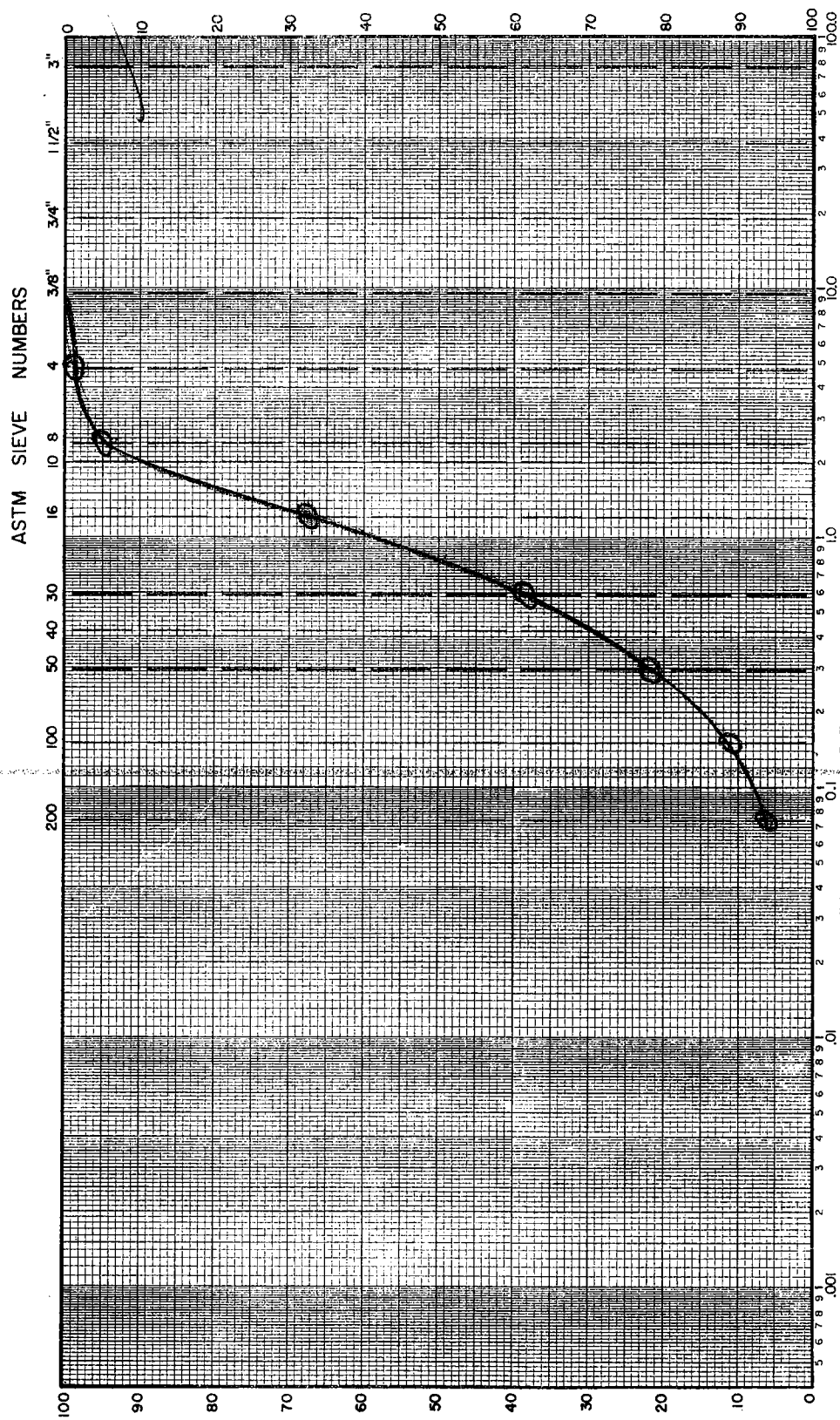
Cu = D₆₀ / D₁₀ _____ PLOTTED BY R

Cc = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY R

185 / 130 _____ DATE 2/28/69

GROUP SYMBOL _____

NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	SAND MEDIUM	COARSE	FINE	GRAVEL COARSE
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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SM-SP ✓
(30)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22907
Project LANNAN DB
Station _____
Location _____
Boring No. 3 Sample No. _____
Sampled By _____ Lab Tested By M-

Total Weight of Sample 1.23 lbs.
_____ grams.
Moisture Content of Fines _____ %.
Date Tested 2/26 Plotted By _____
Remarks NP
Intended Use _____

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2	/					
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52	0.01		0.9	0.9		
No. 4	4.76	0.07	08	6.1	7.0	93.0	
Pan	0	1.15		xxxxx			
Total Fractions		1.23		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.07		93.0			
Total Oven-Dry		1.15		100.00			

Moisture Determination of Fines:
Cup No. 55 A
Dry Weight 166.9 grams
Moisture 7.6 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 92.9 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 99.9 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	8.6	8.6	15.6		
16	1.19	28.3	28.3	43.9		
30	0.59	28.5	28.5	72.4		
50	.297	16.1	16.1	88.5		
100	.149	5.2	5.2	93.7		
200	.074	0.8	0.8	94.5	5.5	
Pan	0	0.0	-			
Total Fractions		87.5				
Total Dry Weight After Wet Sieving		207.6	87.5			
Sieve Loss-Gain		120.2	+			

Calculated by RP Date 2/27/69
Checked by SHF Date 2/28/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. _____

JOB _____

BORING NO. _____ SAMPLE NO. _____

STATION _____ DEPTH _____ FT.

LOCATION _____

SAMPLED BY _____ DATE _____

FIELD CLASSIFICATION _____ BY _____

PLAS. IND. _____ LIQ. LIM. _____

REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____

% (+) NO. 4 / % (+) NO. 200 _____ D_{10} _____ mm

D_{30} _____ mm D_{60} _____ mm

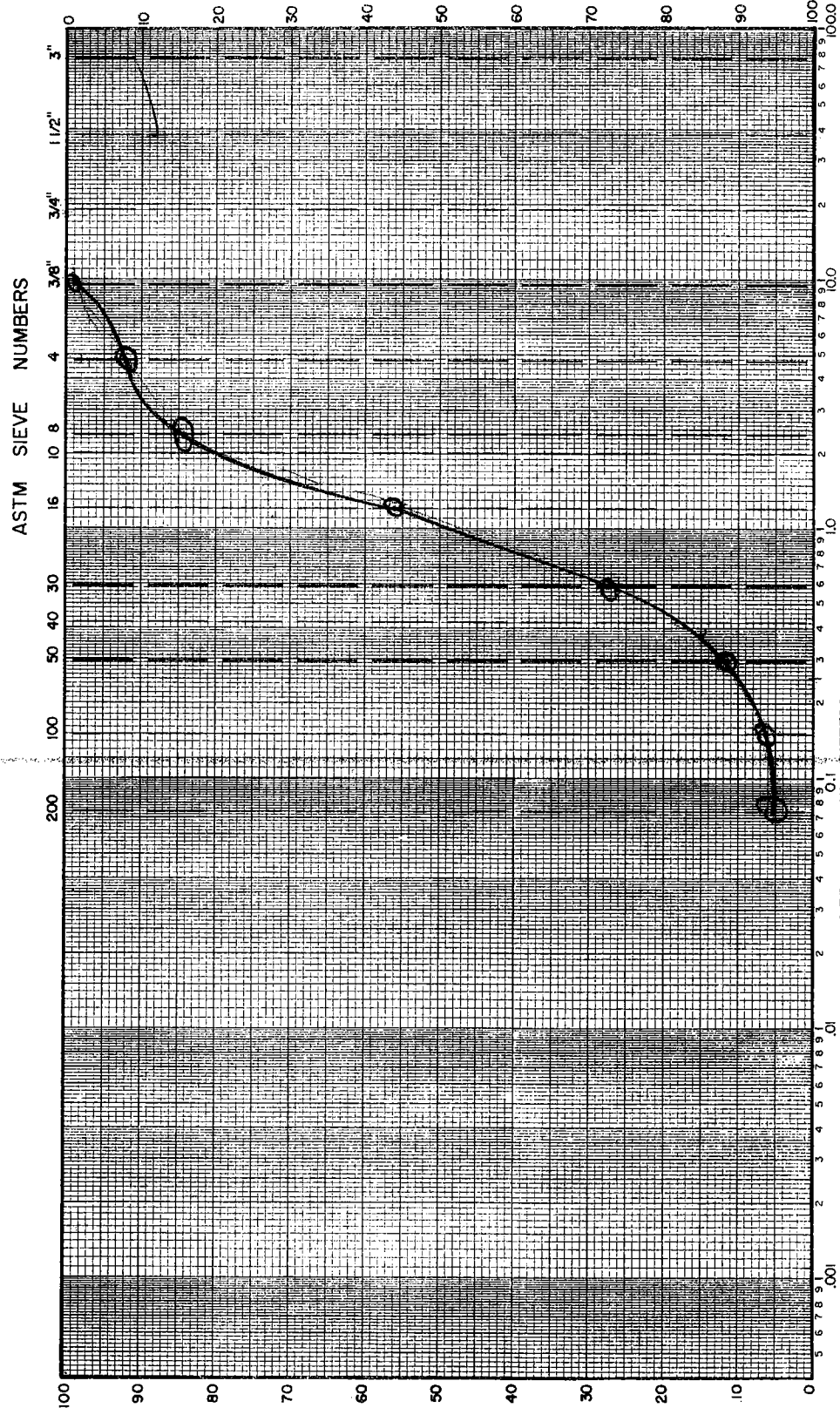
$C_u = D_{60}/D_{10}$ _____

$C_c = (D_{30})^2$ _____

GROUP SYMBOL _____ CHECKED BY RII

DATE 2/20/64

NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	SAND MEDIUM	GRAVEL COARSE
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(20)